

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International publication date

24 December 2003 (24.12.2003)

(10) International publication number

PCT

WO 03/106759 A1

(51) International patent classification?
D06M 15/643, C09D 183/04, C08J 3/03

D06N 3/12,

(74) Representatives: CABINET PLASSERAUD etc., 84
rue d'Amsterdam, F-75440 PARIS CEDEX 09 (FR).

(21) International application number: PCT/FR03/50012

(22) International filing date: 17 June 2003 (17.06.2003)

(25) Language of filing: French

(26) Language of publication: French

(30) Data relating to the priority:
02/07,491 18 June 2002 (18.06.2002) FR

(71) Applicant (for all designated States except US): TISSAGE
ET ENDUCTION SERGE FERRARI SA [FR/FR]; Zone
industrielle de la Tour du Pin, F-38110 SAINT-JEAN DE
SOUDAIN (FR).

(72) Inventors; and

(75) Inventors/Applicants (US only): MARTIN, G r aldine
[FR/FR]; Saint Roch 1, F-38110 LA TOUR DU PIN (FR).
PERILLON, Jean-Luc [FR/FR]; 22 chemin des Fayettees, F-
26130 SAINT-PAUL TROIS CHATEAUX (FR).

(81) Designated states (national): AE, AG, AL, AM, AT,
AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO,
CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB,
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW.

(84) Designated states (regional): ARIPO Patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European Patent (AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR), OAPI Patent (BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG).

[continued on next page]

As printed

(54) Title: METHOD FOR COATING AN ARCHITECTURAL TEXTILE WITH AT LEAST ONE LAYER OF A SILICONE ELASTOMER USING AN AQUEOUS SILICONE EMULSION AND AN ARCHITECTURAL TEXTILE WITH SUCH A COATING

(54) Titre : PROC DE DE REV TEMENT D'UN TEXTILE ARCHITECTURAL AVEC AU MOINS UNE COUCHE D'ELASTOM RE SILICONE, A PARTIR D'UNE EMULSION SILICONE AQUEUSE ET TEXTILE ARCHITECTURAL AINSI REV TU

(57) Abstract: The invention relates to the production of silicone membranes for architectural use, by means of coating an architectural textile with a silicone, in particular, but not exclusively on a glass fabric. The aim of the invention is a method in which the deposition on the architectural textile may be easily and rapidly achieved with a coating rate of less than 40 g/m². Said aim is achieved whereby said method comprises the following steps: deposition on said architectural textile of at least one layer of an emulsion of polyorganosiloxane (POS), which may be cross-linked to give an elastomer by polyaddition and comprising: (A) a POS with =SiVinyl groups, (B) a POS with =SiH groups, (C) a special adherence promoter (polyvinyl alcohol) or POS(OH), (D) a catalyst, (E) at least one surface active agent, (F) optionally a POS resin with =SiVinyl groups, (G) optionally a cross-linking inhibitor, (H) optionally a pH stabilising agent, (I) optionally a formulation additive, (J) optionally a charge and (K) water, with the condition that 0.05 <u></u> (C) <u></u> 4 % by weight of the silicone phase, followed by cross-linking such that the weight proportion of the coating as a proportion of the dry weight of the architectural textile is less than 0.2 and preferably between 0.05 and 0.11.

WO 03/106759 A1

(57) Abr g  : L'invention concerne la r alisation de membranes silicone architecturales obtenues   partir d'un rev tement par un silicone d'un textile architectural, en particulier mais non limitativement d'un tissu de verre. Le but est de fournir un proc d  dans lequel le d p t sur le textile architectural peut  tre ais ment effectu    grande vitesse avec un taux de d p t limit  inf rieur   40 g/m². Pour atteindre ce but, le proc d  comprend les  tapes suivantes : d p t sur ledit textile architectural ; d'au moins une couche d'une emulsion aqueuse de polyorganosiloxane (POS) r ticulable en  lastom re par polyaddition et comprenant : (A) un POS   motifs =SiVinyle, (B) un POS   motifs =SiH, (C) un promoteur d'adh rence sp cial (alcool polyvinylique) ou POS (OH), (D) un catalyseur, (E) au moins un tensioactif, (F)  ventuellement une r sine POS   motifs =SiVinyle, (G)  ventuellement un inhibiteur de r ticulation, (H)  ventuellement un agent de fixation du pH, (I)  ventuellement un additif de formulation, (J)  ventuellement une charge, (K) et de l'eau, avec la condition selon laquelle 0,05   (C)   4 % en poids par rapport   la phase silicone, puis r ticulation, de telle sorte que le rapport du poids de l'enduction exprim e en sec au poids du textile architectural soit inf rieur   0.2 et de pr f rence compris entre 0.05 et 0.11.